

PRESSURE TRANSDUCER:

Combination pressure gauge and transducer was run in the Juniper SWD #1 to monitor the tubing casing annulus above the Arrow IX packer. The pressure gauge and transducer was purchased from MPEC 5481 Swanson Road #1, Gillette Wyoming 82718, phone number 307-686-0065. Coleman Oil & Gas, Inc has an office in Gillette that has used this brand of bottom pressure sensor for several years to monitor the tubing casing annulus for the operation of the submersible pump successfully. The current output from the bottom hole pressure sensor is monitored by the Electronic Field Measurement on a regular basis. The information is polled a minimum of every six hours and posted on a web site. A morning report is sent to the office as well as operation personnel. Monitoring device is set up to announce an alarm in the event the sensor detects an increase of 100 psig or more. An increase in bottom-hole pressure as well as an increase in fluid volume and a decrease in injection pressure would indicate a possible mechanical failure with the internally plastic coated tubing or isolation packer.

In addition to the bottom hole pressure sensor, Coleman's field personnel have checked readings with occasional fluid levels with a sonic fluid level machine.

I have attached two PDF files as well as listed the web site of the manufacture of the Gems sensor.

Home page: <http://www.gemssensors.com/>

Gems 2200 Series Pressure transducers:
<http://www.gemssensors.com/content.aspx?id=2058>